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ABSTRACT OF THE DISCLOSURE

A liquid composition comprising colloidal suspension of a biomolecule-binding matrix material (preferably nitrocellulose) dispersed in a liquid, with particles of the matrix material being of a defined particle size, and replicate copies of a biomolecule, which nucleic acid probes, are protein or uniformly, throughout the preferably distributed, colloidal suspension and are bound to the matrix material The liquid composition of the particles, is disclosed. invention can be used directly for sample analysis or of aliquots the biomolecules, preparation of or composition can be spotted onto a support to form a microporous matrix system or microarray for analysis or preparation of biomolecules. Compositions and microarrays according to the invention are useful in any type of preparative procedure relating analytical or They are particularly useful, e.g., biomolecules. methods for detecting a biomolecule analyte in a liquid methods for determining the presence sample, particular nucleic acid sequence within a liquid sample and methods for determining the presence of a drug candidate molecule in a liquid sample. The invention further comprises kits for practicing the various methods of the invention.

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